DOCUMENT RESUME

ED 367 542 SE 054 043

AUTHOR Midkiff, Ruby Bostick; Thomasson, Rebecca Davis
TITLE A Practical Approach to Using Learning Styles in Math Instruction.
REPORT NO ISBN-0-398-05888-1
PUB DATE 93
NOTE 121p.
AVAILABLE FROM Charles C. Thomas, Publisher, 2600 South First Street, Springfield, IL 62794-9265.
PUB TYPE Books (010)

EDRS PRICE Document Not Available from EDRS.
DESCRIPTORS *Cognitive Style; Elementary Secondary Education; *Instructional Improvement; Learning Activities; Learning Theories; Manipulative Materials; Mathematics Achievement; *Mathematics Instruction; Mathematics Skills; Models; Portfolios (Background Materials); Retention (Psychology); Sex Differences; Spatial Ability; *Teaching Methods
IDENTIFIERS *Authentic Assessment; Mathematical Thinking

ABSTRACT

Instruction based on learning styles has received little attention in the recent reform efforts in mathematics education. The purpose of this book is to address the improvement of mathematics instruction through sensitivity to learning styles. The introduction discusses the scope and rationale of the book. Chapter 2 documents the need for improvement in mathematics education and addresses how both curriculum and instruction must change to prepare students to function in the 21st century. Chapter 3 provides a comprehensive overview of learning styles. Chapter 4 discusses the effective use of manipulatives and provides a sample lesson to serve as a model for future use. Chapter 5 addresses the use of spatial reasoning as a way to reduce gender differences in mathematics achievement. Chapter 6 presents activities that aid retention of mathematical concepts and skills. Chapter 7 introduces the use of portfolios as a method to implement authentic assessment. Chapter 8 summarizes the key ideas presented in the book. (Contains 128 references and an index.) (MDH)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

THIS
DOCUMENT
NOT
AVAILABLE
FROM

EDRS